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**(54) CATALYST FOR PURIFYING EXHAUST GAS AND
METHOD FOR PURIFYING EXHAUST GAS**

(57) Abstract:

PROBLEM TO BE SOLVED: To suppress sulfur poisoning of a NO_x occlusion-reduction type catalyst for purifying exhaust gas, and to improve a NO_x purification rate after enduring at high temperatures.

SOLUTION: A catalyst carrying layer comprises a porous oxide such as alumina, and high heat-resistant titania having an improved

heat-resisting property. Since the grain growth of the titania is inhibited even after enduring at high temperatures, the decrease in the number and area of interfaces between the grain and the porous oxide such alumina is prevented. Thereby, the number and area of the interfaces can be each kept at a level equal to that of an initial stage even after enduring at high temperatures, thus preventing sulfur poisoning of a NO_x occlusion material present in the interfaces.

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